

REMARKS

Claims 1, 4-8, 10-16, 19-22, 24, 27 and 29-49 are pending in this application. By this Amendment, claims 1, 4-8, 10-13, 15 and 21 are amended; claims 2, 3, 9, 17, 18, 23, 25, 26 and 28 are canceled; and claims 29-49 are added. No new matter is added.

I. The Drawings Satisfy All Formal Requirements

The Office Action objects to the drawings under 37 C.F.R. §1.183(A). In response, the claims are amended to obviate the objection. For example, claim 1 now recites a first layer 32 formed of a mixture of a silica insulating filler and a first resin; and a second layer 34 including a second resin as a base material and a dispersion of conductive particles 36. Those recited claim features are shown at least at Fig. 1A, wherein a magnified drawing of a binder 30 is separately shown. Withdrawal of the objection to the drawings is respectfully requested.

II. The Claims Satisfy Requirements Under 35 U.S.C. §112, First Paragraph

The Office Action rejects claims 1-28 under 35 U.S.C. §112, first paragraph. The claims are now variously amended to overcome this rejection. For example, claim 1 recites "the first resin and the second resin being epoxy resins having different physical properties from each other in a state where the binder is bonded with at least the electronic component." Withdrawal of the rejection under 35 U.S.C. §112, first paragraph, is respectfully requested.

III. The Claims Satisfy the Requirements Under 35 U.S.C. §112, Second Paragraph

The Office Action rejects claims 5, 6, 8, 12, 13 and 25 under 35 U.S.C. §112, second paragraph. In response, the claims are now amended to overcome the rejection. Withdrawal of the rejection under 35 U.S.C. §112, second paragraph is respectfully requested.

IV. The Claims Define Patentable Subject Matter

The Office Action rejects claims 1-3, 10, 11, 14-17 and 20-28 under 35 U.S.C. §102(b) over U.S. Patent No. 5,120,665 to Tsukagoshi et al.; claims 7-9 under 35 U.S.C. §103(a) over Tsukagoshi et al.; and further in view of JPA9-227849 to Date et al.; claims 1-3

and 15-17 under 35 U.S.C. §102(b) over JP A5-13119 to Ozawa; claims 4, 5 and 18 under 35 U.S.C. §103(a) over Ozawa, and further in view of U.S. Patent No. 6,223,429 to Kaneda et al.; claim 6 under 35 U.S.C. §103(a) over Ozawa and Kaneda, and further in view of U.S. Patent No. 6,034,331 to Tsukagoshi et al.; claims 12 and 13 under 35 U.S.C. §103(a) over Tsukagoshi et al. '665, and further in view of Tsukagoshi '331; and claim 19 under 35 U.S.C. §102(a) over the Examiner's Official Notice. These rejections are respectfully traversed.

Tsukagoshi et al. '665 and Ozawa do not teach, disclose or suggest "the binder comprising: a first layer formed of a mixed of a silica insulating filler and a first resin; and a second layer including a second resin as a base material and a dispersion of conductive particles, the first resin and the second resin being epoxy resins having different physical properties from each other in a state where the binder is bonded with at least the electronic components," as recited in claim 1 and "the binder including: a first layer; and a second layer ..., a coefficient of thermal expansion of the first layer being smaller than a coefficient of thermal expansion of the second layer," as recited in claims 15 and 21, and as newly recited in claims 36 and 46.

Instead, Tsukagoshi et al. '665 does not relate to two layers of bonding, wherein a silica insulating filler is mixed in with the first resin. Furthermore, the Office Action admits at page 12 that Ozawa does not appear to explicitly teach a silica-based filler.

Kaneda et al., Tsukagoshi et al. '331 and Date et al. do not makeup for the deficiencies of Tsukagoshi et al. '665 and Ozawa. Instead, Kaneda et al., Tsukagoshi et al. '331 and Date et al. are variously directed to a single bonding layer having dispersed particles.

Even if combined, the applied references do not combine to result in the above recited claim features.

For at least these reasons, it is respectfully submitted that claims 1, 15, 21, 36 and 46 are patentable over the applied references. Claims 25, 26 and 28 are canceled. The

dependent claims are likewise patentable over the applied references for at least the reasons discussed as well as for the additional features they recite. Applicant respectfully requests that the rejections under 35 U.S.C. §102 and §103 be withdrawn.

V. Conclusion

In view of the foregoing, it is respectfully submitted that this application is in condition for allowance. Favorable reconsideration and prompt allowance of claims 1, 4-8, 10-16, 19-22, 24, 27 and 29-49 are earnestly solicited.

Should the Examiner believe that anything further would be desirable in order to place this application in even better condition for allowance, the Examiner is invited to contact the undersigned at the telephone number set forth below.

Respectfully submitted,



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